

In the claims:

1. (Original) A system for manufacturing a personal golf putter, comprising a putting surface with at least one hole into which a golfer puts balls; an initial putter with which the golfer hits the balls so as to put the balls into the hole; sensing means for sensing parameters of the initial putter during hitting the balls by the golfer to putt the balls into the hole; data collecting and processing means for collecting and processing data corresponding to said sensed parameters, transmitting means for transmitting said data corresponding to the sensed parameters; computing means for receiving and processing said data; and design and manufacturing means for receiving the data from said computing means, determining final parameters of a personal putter based on said data, and making the personal putter with said final parameters, and said sensing means, said collecting means, and said transmitting means being incorporated in said initial putter.

2. (Original) A system as defined in claim 1, wherein said computing means is formed as a computer which is remote from said putting surface, and said initial putter

3. (Original) A system as defined in claim 1, wherein said data collecting and processing means include a microprocessor connected with electrical signals amplifying means and collecting data from said sensing means to configure said data.

4. (Original) A system as defined in claim 1, wherein said computing means is selected from the group consisting of a remote receiving computer, a pocket personal computer with compatible signal receiving means, and a laptop computer with wireless receiving means.

5. (Original) A system as defined in claim 1; and further comprising a display unit selected from the group consisting of a display unit connected to said computing means and a display unit formed as an integral part of a said computing means.

6. (Original) A system as defined in claim 5, wherein said display unit is formed so as to display an information selected from the group consisting of a position of a putter handle, position of putter head, lie and loft angles with text identifying a deviation in degrees, a putter path during a swing, an acceleration and a deceleration of a putter head alongside of a

putter path, a text message with details related to a swing in real time, in combinations thereof.

7. (Original) A system as defined in claim 5, wherein said display is provided with radio buttons for computer commands selected from the group consisting save, recall, and replay.

8. (Original) A system as defined in claim 1, wherein said computing means is connected to an internet network.

9. (Original) A system as defined in claim 1, wherein said transmitting means is formed so as to transmit information selected from the group consisting of lie and loft angles, a weight of putter head, a weight of a putter shaft, a location of a center of gravity of a putter head, a putter face angle, a shaft lie angle, and offset position, an identification of a golfer who hits the ball with a golf putter, and combinations thereof.

10. (Original) A system as defined in claim 9, wherein said initial putter has a handle and a head, said sensing means including acceleration/deceleration measuring means, one part of putter path

measuring means, and rotation measuring means located in said head, and also including lie/loft angles measuring means and another part of the putter path measuring means located in said handle.

11. (Original) A system as defined in claim 10, wherein said data collecting and processing means and said transmitting means are located in said handle.

12. (Original) A system as defined in claim 1; and further comprising a training putter which is identical with said final personal putter, and in addition has said sensing means, said data collecting and processing means, and said transmitting means.

13. (Original) A system as defined in claim 1; and further comprising a switch actuable by a user and switching operation of electronic system of said initial putter between a plurality of modes.

14. (Original) A system as defined in claim 13; and further comprising indicating means operative for visually indicating the modes to which the electronic system of said initial putter is switched.

15. (Original) A system as defined in claim 13; and further comprising indicating means operative for audio indicating the modes to which the electronic system of said initial putter is switched.

16. (Original) A method for manufacturing a personal golf putter, comprising providing a putting surface with at least one hole into which a golfer putts balls; providing an initial putter with which the golfer hits the balls so as to putt the balls into the hole; sensing parameters of the initial putter during hitting the balls by the golfer to putt the balls into the hole; collecting and processing data corresponding to the sensed parameters by data collecting and processing means; transmitting data corresponding to the sensed parameters by transmitting means ; receiving and processing said data by computing means; receiving the data from said computing means, determining parameters of a personal putter based on said data, and making the personal putter with said parameters by design and manufacturing means; and incorporating said sensing means, said data collecting and processing means and said transmitting means being incorporated in said putter.

17. (Original) A method as defined in claim 16; and further comprising forming said computing means is formed as a computer which is remote from said putting surface.

18. (Original) A method as defined in claim 10; and further comprising providing said data collecting and processing means with a microprocessor connected with and collecting the data from said sensing means to configure said data.

19. (Original) A method as defined in claim 16; and further comprising selecting said computing means from the group consisting of a remote receiving computer, a pocket personal computer with compatible signal receiving means, and a laptop computer with wireless receiving means.

20. (Original) A method as defined in claim 16; and further comprising providing a display unit selected from the group consisting of a display unit connected to said computing means and a display unit formed as an integral part of a said computing means.

21. (Original) A method as defined in claim 20; and further comprising forming said display unit so as to display an information selected from the group consisting of a position of a putter handle, position of putter head, lie and loft angles with text identifying a deviation in degrees, a putter path during a swing, and acceleration and a deceleration of a putter head alongside of a putter path, a text message with details related to a swing in real time, in combinations thereof.

22. (Original) A method as defined in claim 20; and further comprising providing said display with radio buttons for computer commands selected from the group consisting save, recall, and replay.

23. (Original) A method as defined in claim 16, and further comprising connecting said computing means to an internet network.

24. (Original) A method as defined in claim 16; and further comprising providing said transmitting means so as to transmit information selected from the group consisting of lie and loft angles, a weight of putter head, a weight of a putter shaft, a location of a center of gravity of a putter head, a putter face angle, a shaft lie angle, and offset position, an

identification of a golfer who hits the ball with a golf putter, and combinations thereof.

25. (Original) A method as defined in claim 16; and further comprising providing said initial putter with a handle and a head; and providing said sensing means with acceleration/deceleration measuring means, one part of putter path measuring means, and rotation measuring means located in said head, and also with lie/loft angles measuring and another part of the putter path measuring means located in said handle.

26. (Original) A method as defined in claim 16; and further comprising arranging said data collecting and processing means and said transmitting means in said handle.

27. (Original) A method as defined in claim 16; and further comprising providing a training putter which is identical with said final personal putter, and in addition has said sensing means, said data collecting and processing means, and said transmitting means.



28. (Original) A method as defined in claim 16; and further comprising providing a switch actuatable by a user and switching operation of electronic systems of said initial putter between a plurality of nodes.

29. (Original) A method as defined in claim 28; and further comprising providing indicating means operative for visually indicating the modes to which the electronic system of said initial putter is switched.

30. (Original) A method as defined in claim 28; and further comprising providing indicating means operative for audio indicating the modes to which the electronic system of said initial putter is switched.

31. (New) A putter, comprising a handle; a head; and sensing means for sensing parameters selected from the group consisting of acceleration measuring means, deceleration measuring means, putter path measuring means, rotation measuring means, lie angle measuring means, loft angle measuring means, and combinations thereof.

32. (New) A putter as defined in claim 31, wherein said acceleration measuring means, said deceleration measuring means, one part of said path measuring means, and said rotation measuring means are

located in said head, while said lie angle measuring means, said loft angle measuring means, and another part of said putter path measuring means are located in said handle.

33. (New) A putter as defined in claim 31; and further comprising means for transmitting data sensed by said sensing means.

34. (New) A putter as defined in claim 33, wherein said transmitting means is located in said handle.

35. (New) A system for a training golf player, comprising a putter having a handle; a head; and sensing means selected from the group consisting of acceleration measuring means, deceleration measuring means, putter path measuring means, rotation measuring means, lie angle measuring means, a loft angle measuring means, and combinations thereof; means for transmitting data measured by said measuring means; computing means for receiving and processing of the measured data; and display means for displaying the processed data so that a golf player can analyze his performance.

36. (New) A system as defined in claim 35, wherein said putter has means for transmitting the measured data from the putter to said computing means.

37. (New) A method of training a golf player, comprising the steps of providing a putter having a handle, a head, and sensing means selected from the group consisting of acceleration measuring means, deceleration measuring means, putter path measuring means, rotation measuring means, lie angle measuring means, loft angle measuring means, and combinations thereof; transmitting data measured by said measuring means; receiving data processing the transmitted measured data by computing means; and display means for displaying the processed data on a display so that the golf player can analyze his performance.

38. (New) A method as defined in claim 37; and further comprising transmitting the measured data from the putter by transmitting means located in the putter.